



# **Business Management Modernization Program**

**Architecture Overview**

**For SFIS Team**

**August 26, 2005**

# How Does Architecture Relate to the Real World?

<b>AV-1/2</b> <b>Scope and Definition</b>
<b>OV-2</b> <b>Operational Nodes</b>
<b>OV-3</b> <b>Information Exchange</b>
<b>OV-5</b> <b>Activity Model</b>
<b>OV-6a</b> <b>Business Rules</b>
<b>OV-6c</b> <b>Process Model</b>
<b>OV-7</b> <b>Data Model</b>
<b>SV-1</b> <b>System Interfaces</b>
<b>SV-5</b> <b>System Functions Map</b>
<b>SV-6</b> <b>Systems Data Exchange</b>
<b>TV-1</b> <b>Standards</b>



Executive Overview and Encyclopedia

Who does what?

Who Says What to Whom?

What gets done?

What are the rules?

How do things get done?

What data supports the information needs?

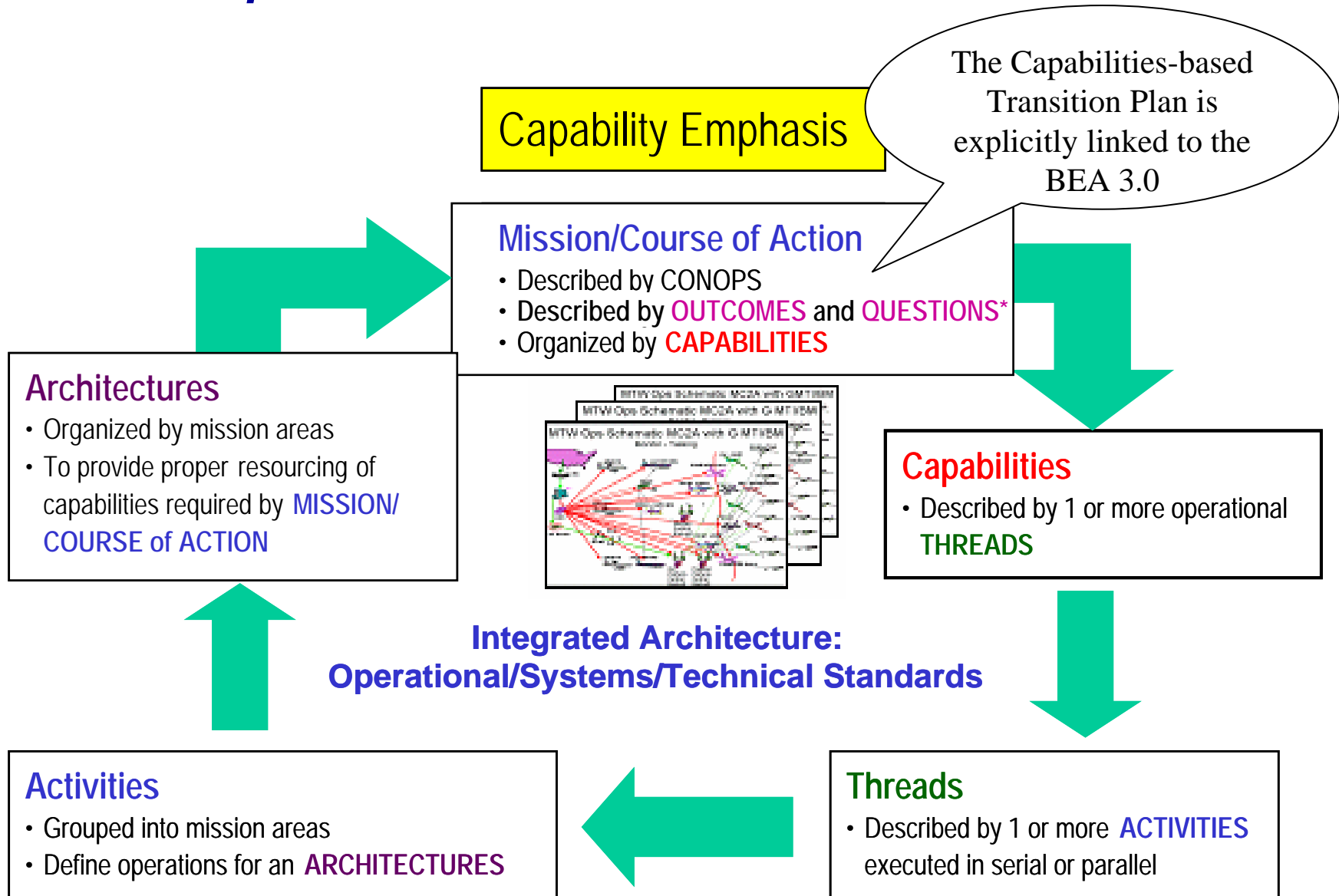
What IT resources are available to support what gets done?

What can be supported through IT automation?

What information is exchanged between systems?

What are the standards?

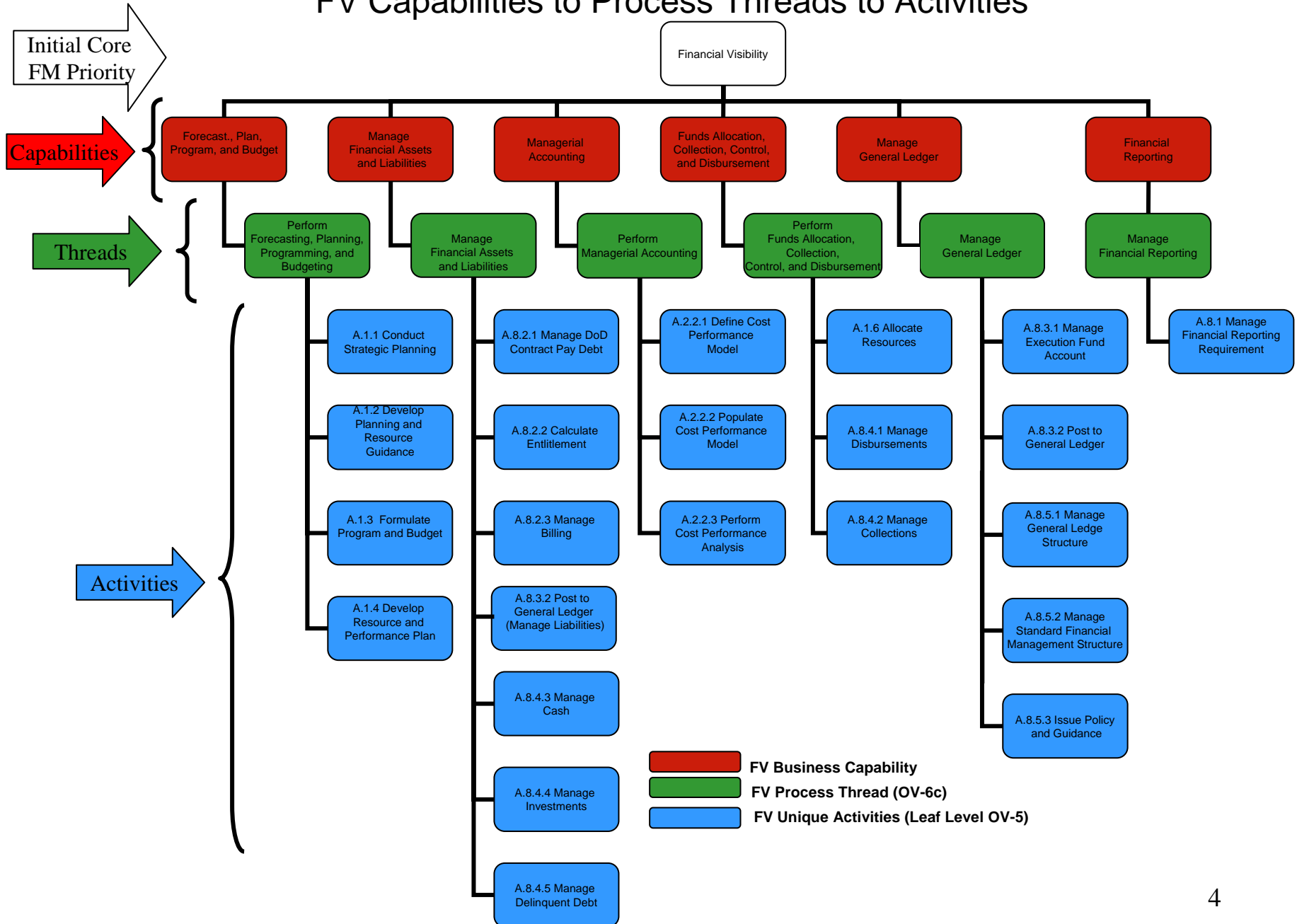
# Capabilities Described with Architectures



Source: DoD Architecture Framework Deskbook (v 1.0) August 2003

(\* -- inserted item)

# FV Capabilities to Process Threads to Activities



# Questions To Be Answered

## ENTERPRISE QUESTIONS

- Who are our people, what are their skills, where are they located?
- Who are our industry partners, and what is the state of our relationship with them?
- What assets are we providing to support the warfighter, and where are these assets deployed?
- How are we investing our funds to best enable the warfighting mission?

## FINANCIAL VISIBILITY QUESTIONS

- What functions and process standards, interoperability standards, and data standards are needed to provide accurate and timely information for financial visibility?
- What functions and process standards, interoperability standards, and data standards need to exist to provide accurate financial information?

## INTEGRATION OUTCOMES TO TEST SAMPLE THREADS

- Can we provide accurate and timely financial information to support management decision making?
- Can we ensure that funds are used in accordance with the budget and that program performance supports achieving strategic capabilities?
- Can we provide financial reporting and financial accountability that is ultimately supported by program accountability?
- Can we capture the full costs of DoD programs, assets, and liabilities?
- Can we ensure accurate and timely payments to DoD business partners and service members?

# BEA 3.0 INTEGRATION MATRIX

BEA 3.0 INTEGRATION MATRIX		AV-1 Scope	AV-2 Encyclopedia	OV-2 Operational Nodes		OV-3 Information Exchange				OV-5 Operational Activities				OV-6a Business Rules	OV-6c Process Model		OV-7 Data Model	SV-1 System Interfaces	SV-5 System Functions	SV-6 System Data Exchange	TV-1 Standards	Transition Plan
		Scoping Questions, Outcomes, Capabilities	Definitions, Glossary	Operational Nodes	Needlines	IER Names	IER Sources	IER Destination	IER Attributes	Activities	Inputs, Outputs	Controls	Mechanisms	Rules	Processes	Data Objects	Entities	Systems	System Functions	SDE		
AV-1 Scope	Scoping Questions, Outcomes, Capabilities																					
AV-2 Encyclopedia	Definitions, Glossary																					
OV-2 Operational Nodes	Operational Nodes																					
	Needlines																					
OV-3 Information Exchange	IER Names																					
	IER Sources																					
	IER Destination																					
	IER Attributes																					
OV-5 Operational Activities	Activities																					
	Inputs, Outputs																					
	Controls																					
	Mechanisms																					
OV-6a Business Rules	Rules																					
OV-6c Process Model	Processes																					
	Data Objects																					
OV-7 Data Model	Entities																					
SV-1 System Interfaces	Systems																					
SV-5 System Functions	System Functions																					
SV-6 System Data Exchange	SDE																					
TV-1 Standards																						
Transition Plan																						

# Standard Financial Information Structure

- SFIS is the Department's common business language—supports budgeting, accounting and financial reporting, and performance-based management processes.
- SFIS is based on financial management information requirements mandated by the OMB and Treasury.
- SFIS is most visible within the BEA OV-7 data model, OV-6C process models, and OV-6A business rules.
  - SFIS data elements are defined within OV-7 as entities and attributes.
  - SFIS data elements are cited on data objects within OV-6C process flows across all CBMs.
  - SFIS business rules are linked to OV-6C business processes and data objects.
  - Additional BEA Version 3.0 architecture products also reflect SFIS impact
- As additional business requirements are addressed in subsequent BEA iterations, SFIS impact will be reflected.

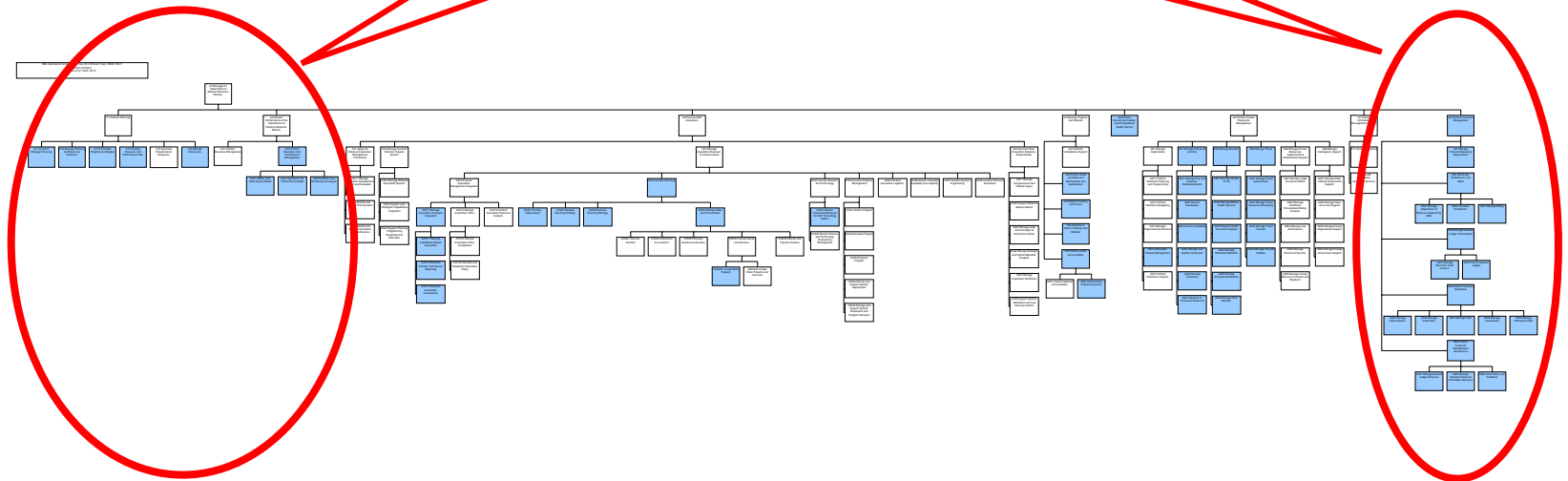
# Standard Financial Information Structure

- SFIS is a critical element of BEA Version 3.0 that addresses specific NDAA information structure requirements (Section 332, Paragraph 2222.d.1.).
- Key SFIS data elements are established during Programming, Planning, and Budgeting
- During budget execution, the originally established accounting classification is referenced using Allocation UID and Demand UID, not re-created.
- As operational business events trigger financial transactions, additional SFIS transactional information, trading partner information, and cost accounting information is generated and referenced to the accounting classification using the Allocation UID and Demand UID.
- Any business system performing FM operations or triggering financial transactions must use applicable SFIS data elements defined in BEA.

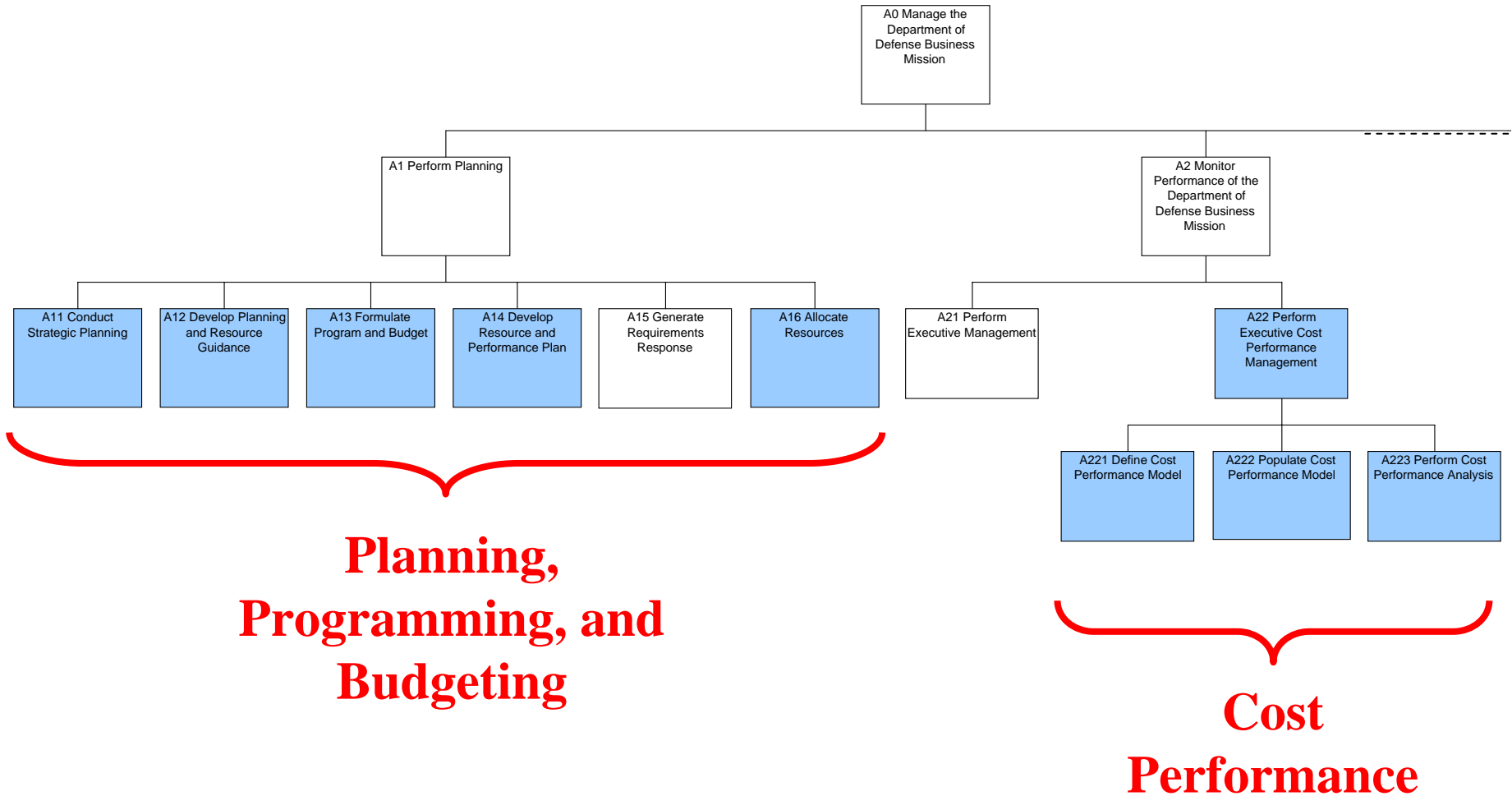


# OV-5 Node Tree -- What Gets Done?

FV Functions  
of the BEA 3.0

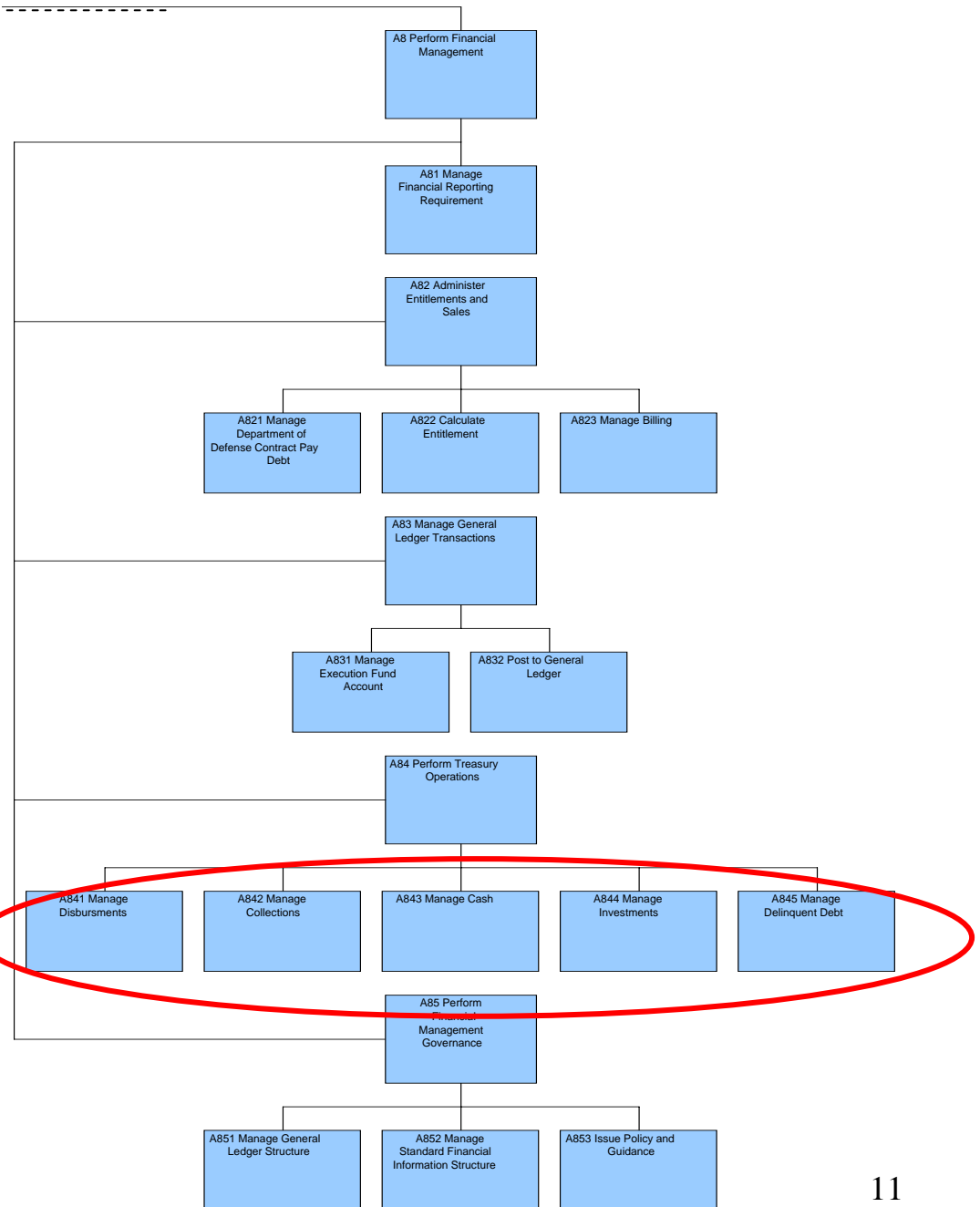


# OV-5 Node Tree

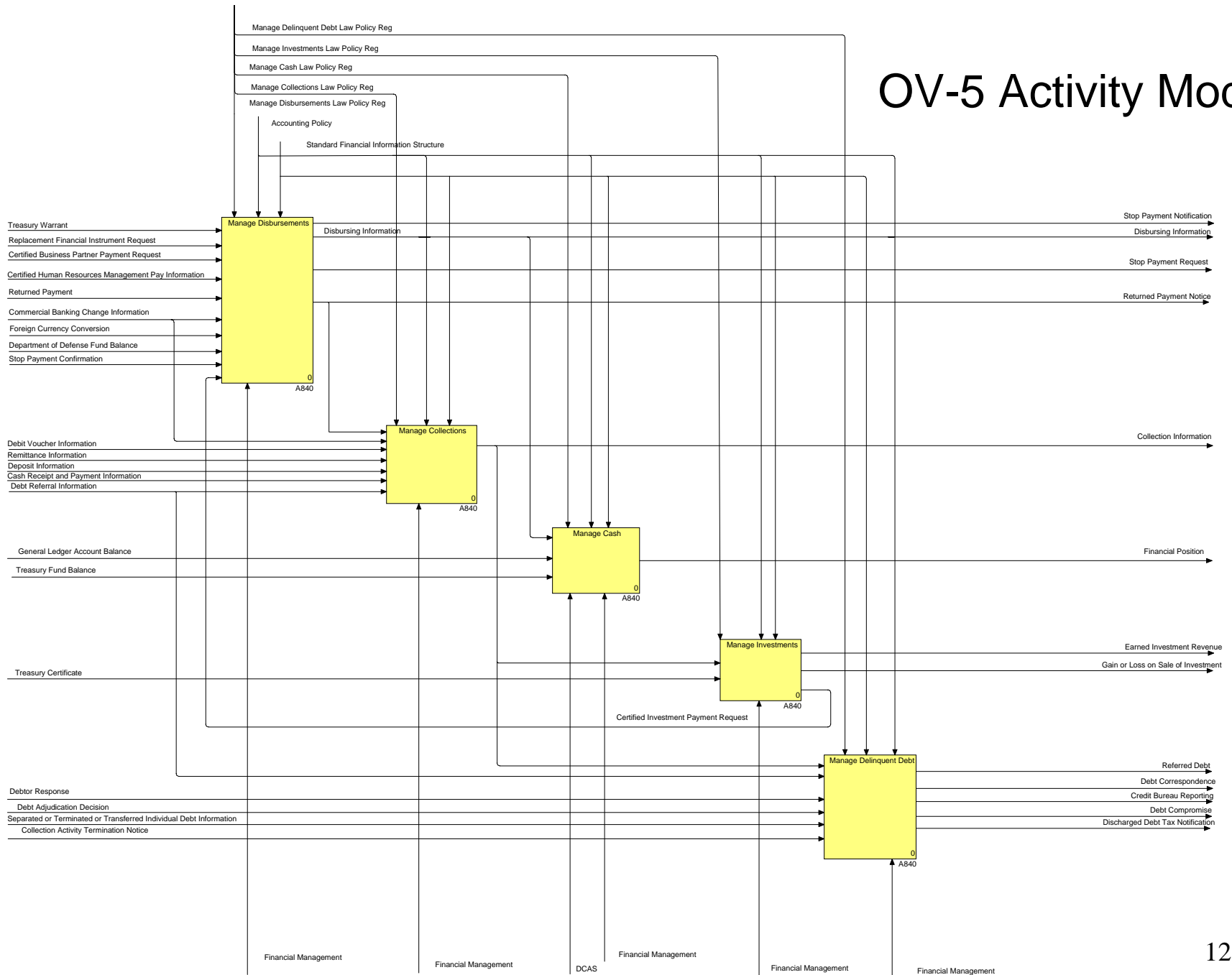


# OV-5 Node Tree

## Financial Management



# OV-5 Activity Model



# FV OV-6c – A1 Level

## How Do Things Get Done?

- 1.1 Conduct Strategic Planning
- 1.2 Develop Planning and Resource Guidance
- 1.3 Formulate Program and Budget
- 1.4 Develop Resource and Performance Plan

Perform Forecasting,  
Planning,  
Programming, and  
Budgeting

Perform  
Managerial  
Accounting

- 2.2.1 Define Cost Performance Model
- 2.2.2 Populate Cost Performance Model
- 2.2.3 Analyze Cost Performance Model

Perform  
Financial  
Reporting

8.1 Manage Financial Reporting Requirement

- 1.6 Allocate Resources
- 8.4.1 Manage Disbursements
- 8.4.2 Manage Collections

Perform Funds  
Allocation,  
Collection, Control,  
and Disbursement

Manage  
General Ledger

- 8.2.1 Manage DoD Contract Pay Debt
- 8.2.2 Calculate Entitlement
- 8.2.3 Manage Billing
- 8.3.2 Post To General Ledger (Manage Liabilities)
- 8.4.3 Manage Cash
- 8.4.4 Manage Investments
- 8.4.5 Manage Delinquent Debt

Manage  
Financial  
Assets and  
Liabilities

- 8.3.1 Manage Execution Fund Account
- 8.3.2 Post to General Ledger
- 8.5.1 Manage General Ledger Structure
- 8.5.2 Manage Standard Financial Information Structure
- 8.5.3 Issue Policy and guidance

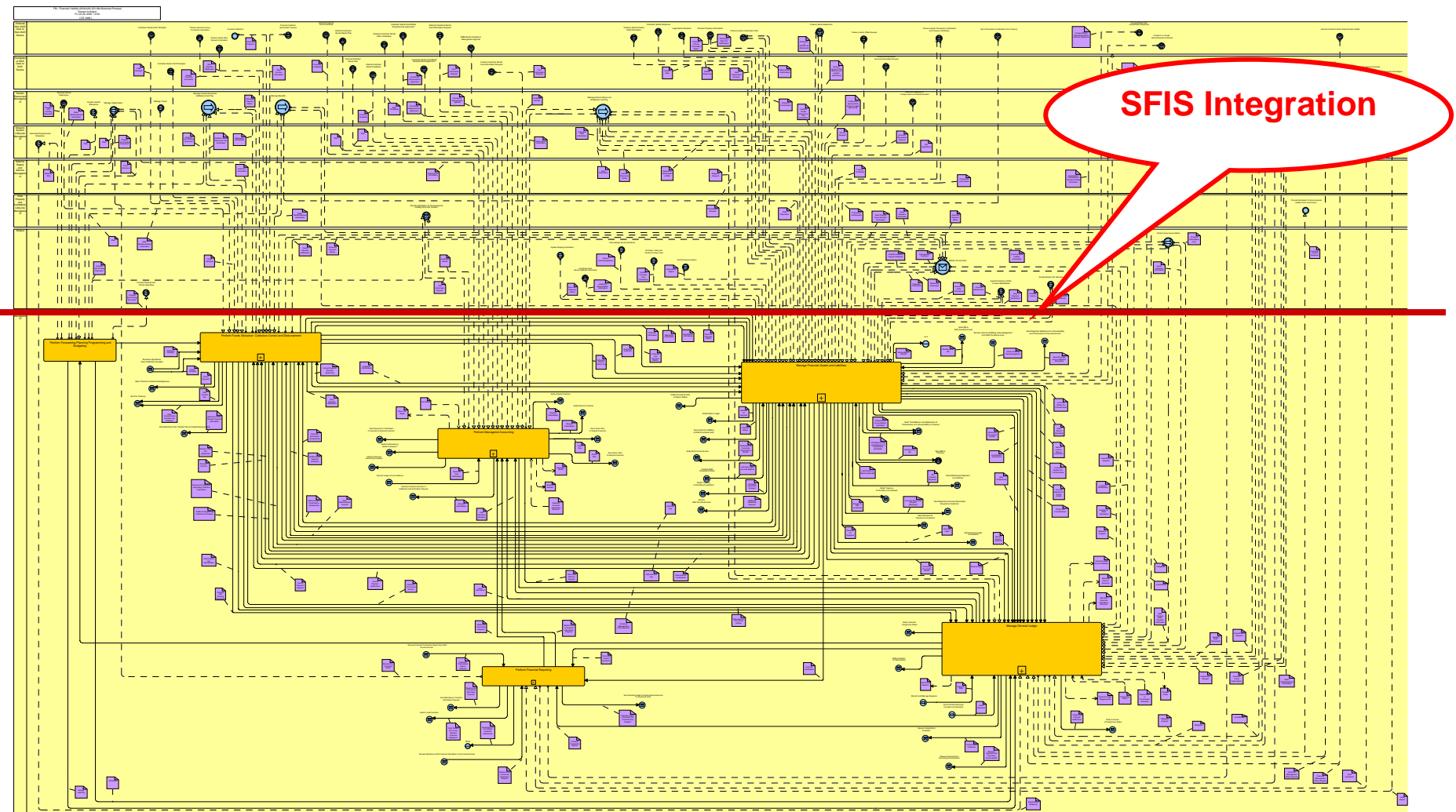


**FV BEP Capabilities Aligned with OV-6c Processes**

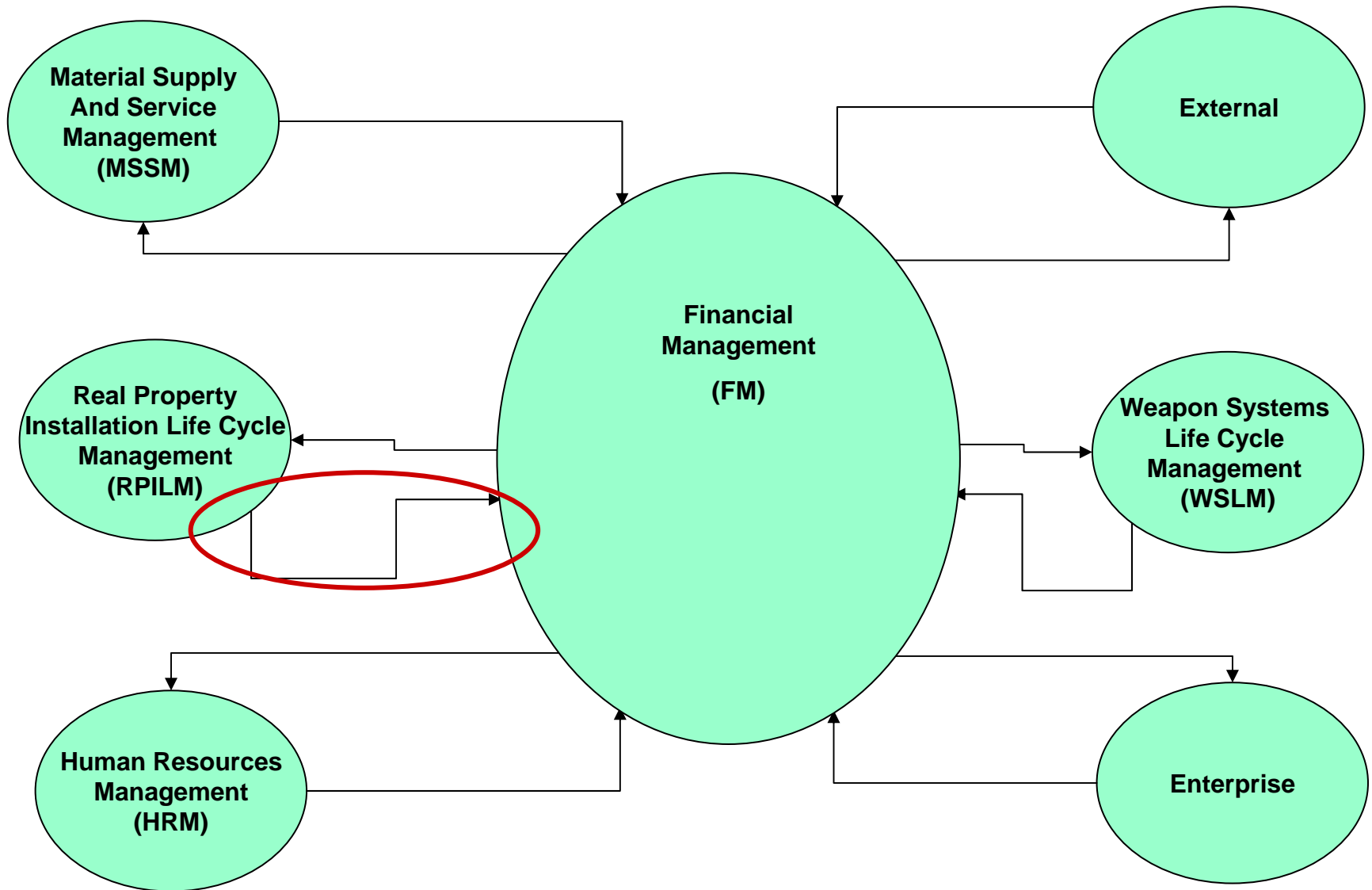
- 1.1 Conduct Strategic Planning
- 1.2 Develop Planning and Resource Guidance
- 1.3 Formulate Program and Budget
- 1.4 Develop Resource and Performance Plan
- 1.5 Develop Requirements Strategy

**FV BEP OV-5 Activities Aligned with OV-6c Processes**

# FV OV-6c – A1 Level – How Do Things Get Done?

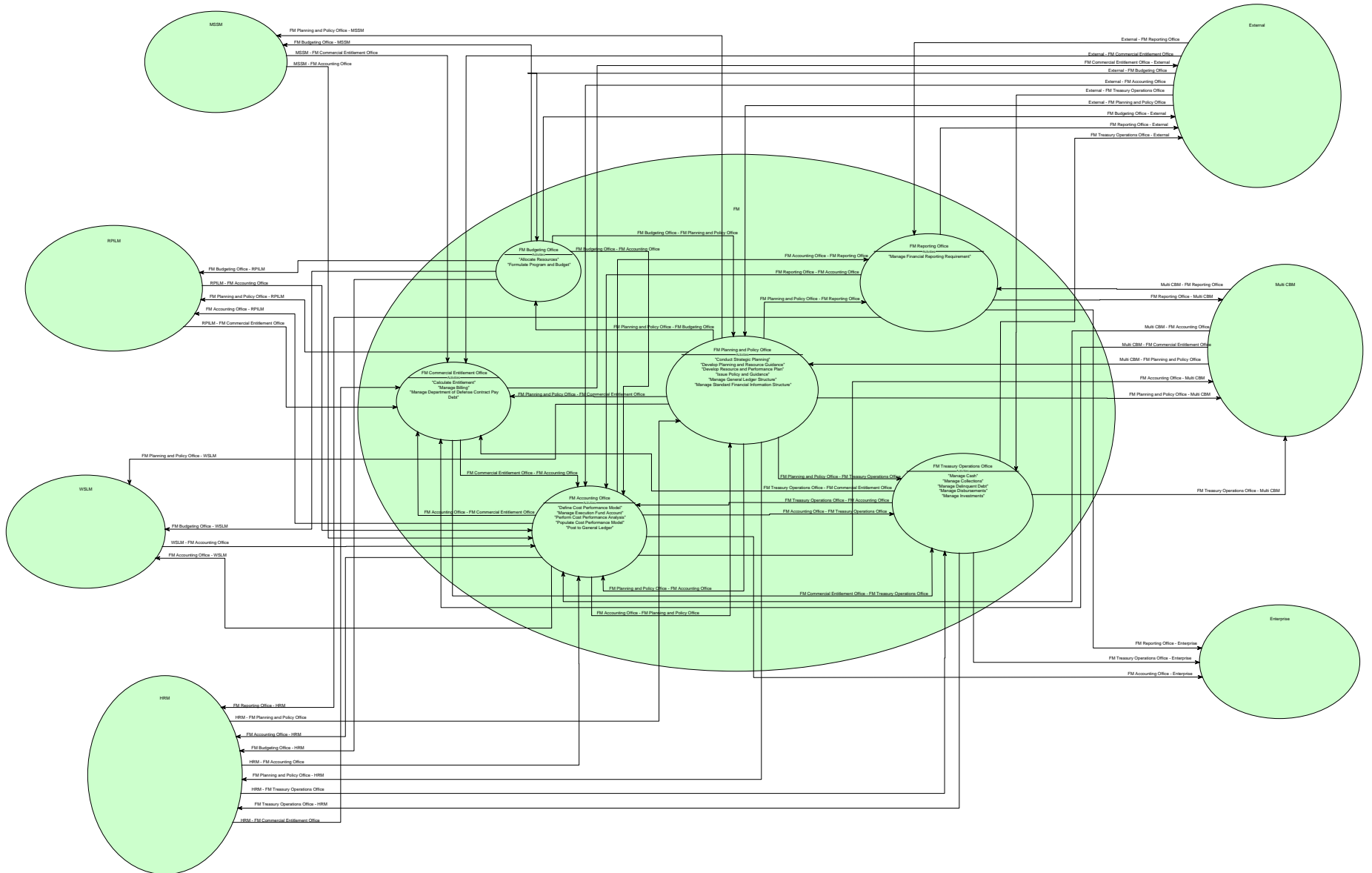


**FV OV-2 – A0 Level –  
Who Does What?**



# FV OV-2 – A1 Level – Who Does What?

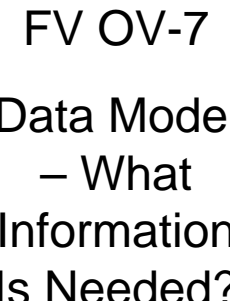
U728 OV-2 FY with Subprocess OV-100 Ops Node Connectivity  
System Architect  
Tue Aug 10, 2009 10:28





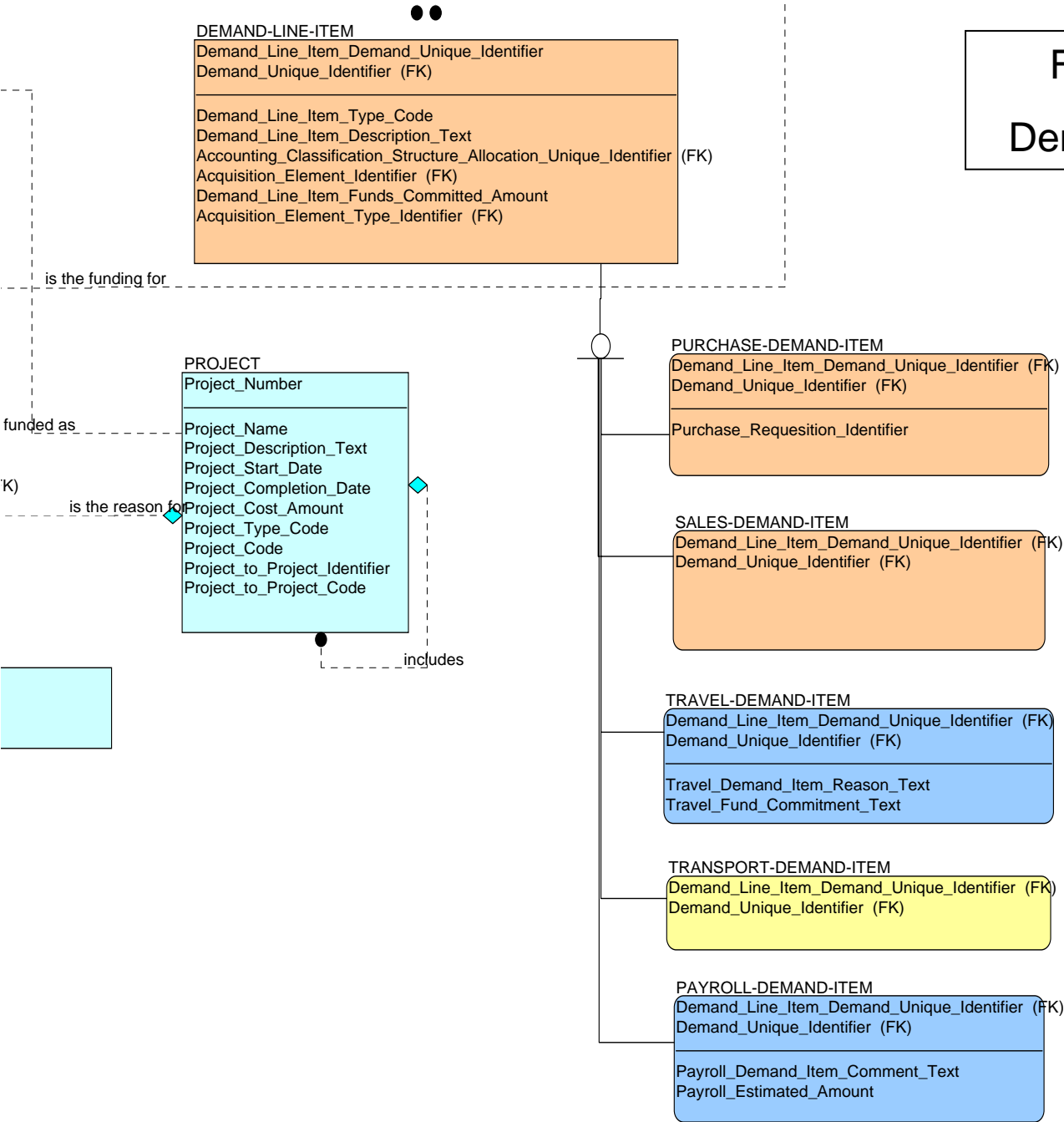
## FV OV-3 – Information Exchange – Who Says What To Whom?

Need Line	Information Exchange	Source Node	Source Activity	Destination Node	Destination Activity	Content
RPILM - FM Accounting Office	Seller Materiel and Maintenance and Service Status	RPILM	Perform Build and Make and Maintenance and Sustainment Perform Asset Accountability	FM Accounting Office	Post to General Ledger	This is the information regarding the provision of goods or services with data for collection and shipment planning to include, but not limited to: status or evidence from operational execution activities of HRM, Logistics, and I&E for schedule and cost.
RPILM - FM Accounting Office	Updated Asset Record	RPILM	Perform Build and Make and Maintenance and Sustainment	FM Accounting Office	Post to General Ledger	This is the continuous aggregation of descriptive characteristics of an asset under Department of Defense accountability.
RPILM - FM Accounting Office	Updated Liability Record	RPILM	Perform Environment Safety and Occupational Health Service Perform Asset Accountability	FM Accounting Office	Post to General Ledger	Upon partial liquidation of a liability, the liability is recalculated to show new amount outstanding.
MSSM - FM Accounting Office	Seller Materiel and Maintenance and Service Status	MSSM	Perform Build and Make and Maintenance and Sustainment Perform Asset Accountability	FM Accounting Office	Post to General Ledger	This is the information regarding the provision of goods or services with data for collection and shipment planning to include, but not limited to: status or evidence from operational execution activities of HRM, Logistics, and I&E for schedule and cost.
MSSM - FM Accounting Office	Updated Asset Record	MSSM	Perform Build and Make and Maintenance and Sustainment	FM Accounting Office	Post to General Ledger	This is the continuous aggregation of descriptive characteristics of an asset under Department of Defense accountability.



# FV OV-7 Data Model

## Demand Unique Identifier

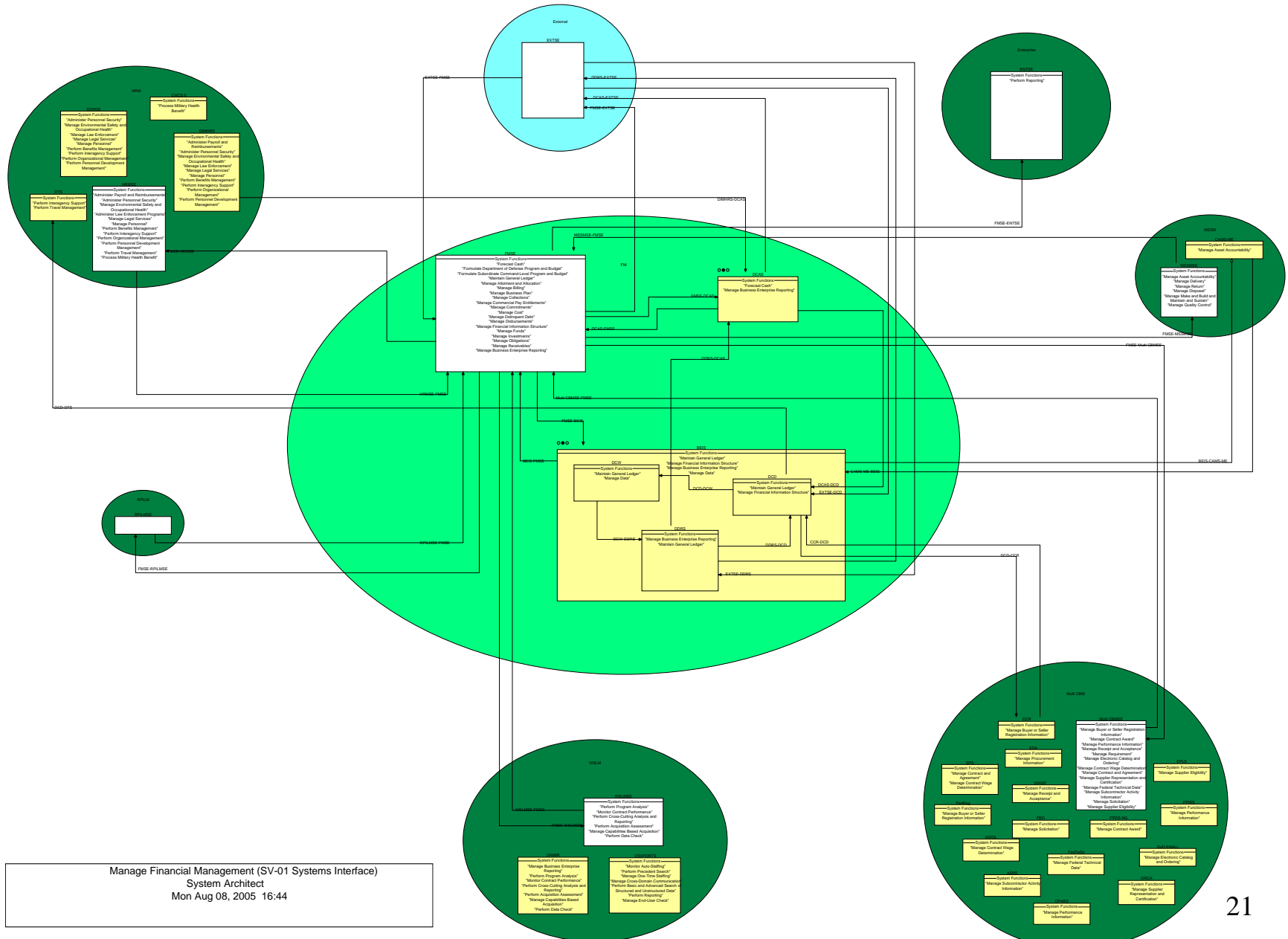


## FV OV-6a Business Rules

### Demand Unique Identifier

A	B	C
Name	Description <-- Description	BR Source Type
ENT_Demand_Unique_Identifier_1	Obligation data must be uniquely identified at the line item or sub-line item level.	Derived Requirement
ENT_Demand_Unique_Identifier_2	Unless otherwise authorized by Office of the Under Secretary of Defense (Comptroller) OUSD (C ), commitment accounting is required based on authority and availability of funds upon the creation of the Demand Unique Identifier (DUID).	Derived Requirement
ENT_Demand_Unique_Identifier_3	A Demand Unique Identifier (DUID) must be created when funds are committed.	Derived Requirement
ENT_Demand_Unique_Identifier_4	Each Demand Unique Identifier (DUID) must relate to only one Allocation Unique Identifier (AUID).	Derived Requirement
ENT_Demand_Unique_Identifier_5	Each Allocation Unique Identifier (AUID) may be associated with one or more Demand Unique Identifiers (DUID).	Derived Requirement
ENT_Demand_Unique_Identifier_7	Each Subsequent Unique Identifier (UID) must be associated with precedent UIDs	Derived Requirement
ENT_Demand_Unique_Identifier_8	If multiple funding sources within the demand, there must be a Demand Number Plus Suffix for each funding source.	Derived Requirement
ENT_Demand_Unique_Identifier_9	If multiple funding sources within demand line items - there must be a Demand Number Plus Suffix for each demand line item, and second suffix for each funding source.	Derived Requirement
ENT_Demand_Unique_Identifier_10	Each Demand Unique Identifier (DUID) suffix must be at the sub-line item level.	Derived Requirement

## Financial Management SV-1 – What IT Resources Are Available To Support What Gets Done?



# FV System Functions SV-5 – What Can Be Supported Through IT Automation?

	Forecast, Plan, Program and Budget			Manageriel Accounting			Manage Financial Assets & Liabilities						Manage General Ledger				Funds Allocation, Collection, Control, and		Financial Reporting
Operational Activity	Formulate Program and Budget	Develop Resource and Performance Plan	Allocate Resource	Define Cost Performance Model	Populate Cost Performance Model	Perform Cost Performance Analysis	Calculate Entitlement	Manage DoD Contract Pay Debt	Manage Delinquent Debt	Manage Investments	Manage Cash	Manage Billing	Post to General Ledger	Manage Execution Fund Account	Manage General Ledger Structure	Manage Standard Financial Information Structure	Manage Collections	Manage Disbursements	Manage Financial Reproting Requirement
System Functions																			
Forecast Cash											DCAS								
Maintain General Ledger													BEIS						
Manage Allotment and Allocation			X																
Manage Billing												X							
Manage Business Enterprise Reporting																			BEIS, DCAS
Manage Business Plan		X																	
Manage Collections																	X		
Manage Commercial Pay Entitlements							X	X											
Manage Commitments														X					
Manage Cost				X	X	X													
Manage Delinquent Debt									X										
Manage Disbursements																		X	
Manage Financial Information Structure															BEIS	BEIS			
Manage Funds														X					
Manage Investments										X									
Manage Obligations														X					
Manage Receivables												X							